

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-14 (canceled):

Claim 15 (previously presented): Bioreactor for culturing living cells in a liquid medium comprising:

at least one stationary plastic bag enclosing the cells and liquid culture medium, and  
at least one means for introducing single large gas bubbles at a bottom of the vessel, the single large bubble width from 50 to 99% of the tank width.

Claim 16 (previously presented): Bioreactor for culturing living cells in a liquid medium comprising:

at least one stationary tank enclosing the cells and liquid culture medium, and  
at least one means for introducing single large gas bubbles at a bottom of the vessel, the single large bubble width at least 98.5% of the tank width.

Claim 17 (previously presented): Bioreactor for culturing living cells in a liquid medium comprising:

at least one stationary flexible plastic bag enclosing the cells and liquid culture medium,  
and  
at least one means for introducing single large gas bubbles at a bottom of the vessel, the single large bubble width from 50 to 99% of the tank width.

Claims 18-20 (canceled):

Claim 21 (currently amended): Bioreactor for culturing living cells in a liquid medium comprising:

at least one stationary tank enclosing the cells and liquid culture medium, and  
at least one means for introducing single large gas bubbles at a bottom of the vessel,  
the single large bubble width from 50 to 99% of the tank width, ~~wherein the width of the  
single large bubble is 60% to 99% of the tank width.~~

Claim 22 (new): Bioreactor for culturing living cells in a liquid medium comprising:  
at least one stationary tank enclosing the cells and liquid culture medium, and  
at least one means for introducing single large gas bubbles at a bottom of the vessel,  
the single large bubble width from 50 to 99% of the tank width, wherein the upper part of  
the tank is flared and wherein the stationary tank is surrounded by a rigid outside container.